

List of voluntary stations of the Signal Service, with their respective observers, who furnish meteorological reports for the Monthly Weather Review. Reports have not been received from those marked with an asterisk () in time to be used in the Review for July, 1889.*

Place of observation and observer.	Place of observation and observer.	Place of observation and observer.	Place of observation and observer.	Place of observation and observer.
ALABAMA. Auburn, Ala. Weather Service. Bermunda, Wm. Fowler. Citronelle, J. G. Michael. Columbiana, W. D. Lovett. Livingston, Prof. J. W. A. Wright. Luverne, J. O. Sentell. Motes, A. M. Weiler. Mount Willing, W. M. Garrett. Valley Head, E. P. Nicholson, M. D. Wiggins, M. D. Jones.	DAKOTA—Continued. Huron, Dakota, Weather Service. Kimball, A. S. Stover. Napoleon, J. H. Hoof. New England City, E. S. Clough. Ouida, Mrs. M. F. Goddard. Parkston, John J. Swartz. Redfield, W. H. Dempster. Roscoe, C. H. Spencer. Spearfish, J. H. Warren. Spring Lake, A. Gould. Steile, F. R. Hill. Wadsworth, C. I. Croft. Webster, Arthur Betts. Wolsey, G. W. Frink. Woonsocket, L. O. Libby.	IOWA—Continued. Fort Madison, Miss. L. A. McCready. Gillett, H. L. Pierce. Glenwood, Seth Dean. Glenwood, A. Schappel. Grinnell, Prof. S. J. Buck. Hampton, E. C. Grenelle. Humboldt, Miss Florence Pronty. Independence, Emil F. Wulfke. Iowa City, Prof. A. A. Veblen. Jefferson, S. M. Taylor. Logan, Mrs. M. B. Stern. McGregor, A. F. Hofer. Manson, W. L. Thompson. Maquoketa, A. B. Bowers, M. D. Monticello, H. D. Smith. Mount Pleasant, Dr. Max E. Witte. Mt. Vernon, Prof. Alonzo Collin. Muscatine, J. P. Walton. Osage, G. D. Puttling. Oskaloosa, Joseph Boyd. Oskaloosa, H. O. Avery. Sac City, Dr. Caleb Brown. Vinton, T. F. McNamee. Washington, Wm. A. Cook. Webster City, C. M. Trumbauer. Westby, Wm. Ward.	MARYLAND—Continued. McDonogh, McDonogh Institute. Mt. St. Mary's, Mt. St. Mary's College. Woodsfoot, Woodstock College.	NEBRASKA—Continued. Kimball, D. Henderson, Jr. Marquette, John Ellis. Mullen, F. L. Mary. North Loup, E. W. Black. Stratton, J. B. Shupe. Syracuse, P. W. Kisser. Treeumseh, W. L. Dunlap. Weeping Water, G. Treat.
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ILLINOIS. •Joliet, J. T. Tidball. Julian, L. N. Bailey. La Grange, Jos. Dominica. Lewis Creek, John Tuohy. Los Banos, A. Widmann. Mount Hamilton, Lick Observatory. National City, J. E. Boal. Needles, John J. Clark. Oakland, Dr. J. B. Trembley. Oroville, Hirain Arents. •Palindale, Welwood Murray. Sierramento, S. H. Gerrish. Satinas, Dr. E. K. Abbott. •San Bernardino, A. K. Holt. San Luis Obispo, J. E. Lewis. Santa Barbara, H. D. Vail. Santa Clara, A. Block. Santa Maria, L. E. Blochman. Susanville, T. B. Sanders. Vacaville, G. O. Colburn. Walla Walla Creek, J. Titcomb. Walnut Creek, A. L. Bancroft. Wheatland, Wm. Lambard. Willow, David Bentley.	INDIANA. Era, Hervey Brooks. Kootenai, David McLaughlin. Lewiston, Robert Schleicher. Soda Springs, L. C. Eastman.	ILLINOIS. Charleston, J. B. Dazey. Collinsville, Dr. J. L. R. Wadsworth. Mattoon, Wm. Dozier. Mount Morris, Wm. Feary. Oswego, John S. Seely. Palestine, John E. Templeton. Pekin, Rev. J. E. Terborg.	KENTUCKY. Ashland, J. M. Ferguson. Bernstadt, John de Planta. Bowling Green, M. H. Crump. Canton, C. H. Major. Earlington, J. B. Atkinson. Falmouth, F. G. Held. Frankfort, E. C. Went. Franklin, T. W. MacGill. Louisville, Ky. Weather Service. McHenry, M. G. Duncan. Madisonville, T. J. Gill. •Millsburg, Rev. C. Pope. Mount	

List of voluntary stations of the Signal Service, with their respective observers, who furnish meteorological reports for Monthly Weather Review—Cont'd.

Place of observation and observer.	Place of observation and observer.	Place of observation and observer.	Place of observation and observer.	Place of observation and observer.
Ohio. Beallsville, R. D. McGaughy. Bellevue, Wm. Sheffield. Carrollton, P. M. Herold. Cleveland, G. A. Hyde. College Hill, John W. Hammitt. Collinwood, Wm. Smeed. Columbus, Ohio Weather Service. Denos, B. B. Ault. Elyria, C. W. Goodspeed. Garrettsville, S. M. Luther. Glasgow, W. McBane. Junctionborough, Dr. J. B. Owsley. Kent, P. W. Eigner. Kenton, L. J. Demarest. Leipsic, J. D. Hadermann. Lordstown, W. S. Dean. Napoleon, Dr. T. C. Hunter. New Athens, Jos. Holmes. North Lewisburgh, H. D. Gowey. Orangeville, E. N. Hyde. Portsmouth, Dr. D. B. Cotton. Poland, Chas. Stewart. Shanesville, John Roth. Shiloh, Peter Bowman. Tiffin, Rev. T. H. Sondecker. Vienna, W. D. McCorkle. Wauseon, Thos. Mikesell. Westerville, Prof. John Haywood. West Milton, Luke S. Motte. Yellow Spgs, Miss Eliza G. Rice.	PENNSYLVANIA—Continued. Co., Wm. Loveland. Dritton, H. D. Miller. Dyberry, Theo. Day. Easton, Dr. J. W. Moore. Edinburgh, C. F. Sweet. Franklin, Joseph Bell. Germantown, Thos. Mechan. Glanian Hills, Nathan Moore. Haverford, H. V. Gummere. Le Roy, Geo. W. T. Warburton. Meadville, David Logan. Meshoppen, Stephen S. Jenkins. Nisbet, J. S. Gibson. Petersburgh, J. E. Rooney. Philadelphia, Pennsylvania Weather Service. Philippines, G. F. Dunkle. Pleasant Mount, J. D. Brennan. Quakertown, J. L. Heacock. Reading, C. M. Dechant. Salem Corners, T. B. Orchard, M.D. State College, Agricultural Ex- perimental Station. •Tipton, Miss C. J. Wilson. Troy, Rev. M. Gustin. Tuscarora, R. J. Micky. Wellsborough, Hiram D. Deming. West Chester, Dr. Jesse C. Green.	TEXAS—Continued. Austin, Q. C. Smith, M.D. *Baird, D. Richardson. Bear Creek Ranch, W. H. Potter. Belton, E. A. Sterling. Brazoria, H. Stevens. *Brenham, J. G. Sloan. Brownwood, J. F. Mayo. Cedar Hill, J. P. Berry. Cleburne, P. J. Norwood. Coldwater, J. W. O'Brien. *Colorado, Fred R. Blount. Columbia, J. S. Rogers. Corsicana, E. L. Gibson. Decatur, H. D. Donald. Duval, J. C. Edger. Forestburgh, J. N. Morris. Fort Worth, Jas. G. Mallett. Fredericksburgh, Arthur Strieg- ler. Gainesville, D. F. Ragdale. Gallina, Linn Woodruff. Galveston, Tex. Weather Service. Graham, A. B. Grant. •Granbury, E. H. Snider. Hartley, E. L. McDonough. Howe, W. M. Smith. Le Grange, Jos. Cottam. Laupusas, Dr. C. M. Ramsdell. Merkel, J. L. Vaughan. Mesquite, Silas G. Laekey. Menardville, Louis Runge. Navasota, C. E. Hull. New Braunfels, Paul Wipprecht. New Ulm, C. Runge. Roby, Crane & Keifer. Silver Falls, C. M. Tilford. Snyder, A. C. Wilmeth. Utah. Beaver, Rev. J. D. Gillilan. Levan, A. B. Larsen. Loose, Ephraim Caffall. •Mount Carmel, Robert Moncur. Mount Pleasant, Hans C. Davidson. Nephi, W. R. May. Saint George, Seth A. Pym.	VERMONT. Brattleborough, W. H. Childs. Burlington, W. B. Gates. Bear Creek Ranch, W. H. Tibbets. *Coventry, W. H. Lovering. East Berkshire, H. B. Lovering. Lunenburgh, Dr. Hiriam A. Cutting. Manchester, Rev. E. P. Wild. Newport, M. B. Trasher. Saint Johnsbury, F. Fairbanks. Stratford, H. F. J. Scribner.	WISCONSIN—Continued. Grantsburgh, M. L. Roby, M. D. Greenwood, H. J. Thomas. Hayward, J. M. Custard. Lincoln, A. J. Loose. Madison, Washburn Observatory. Manitowoc, Miss Clasina Lips. Neillsville, W. Heastlett. •Oshkosh, Prof. W. N. Munper. Richland Centre, H. M. Ludwig. Summit Lake, E. S. Koepenick. Viroqua, F. J. Bold. Waupaca, G. H. Yapp. Wausau, Hinemann Bros. Weston, R. R. Wilkinson.
OREGON. Albany, John Briggs. Bandon, Geo. Bennett. East Portland, Dr. Geo. Wigg. Eola, Thos. Pearce. Grant's Pass, Jno. G. Jessup. Heppner, Arthur Smith. La Grande, J. K. Romig. Mt. Angel, Rev. F. Barnabas Held. Portland, Oreg. Weather Service. Tillamook, A. P. Wilson.	SOUTH CAROLINA. Kingston, C. O. Flagg.	GALLINAS, Linn Woodruff. Galveston, Tex. Weather Service. Graham, A. B. Grant. •Granbury, E. H. Snider. Hartley, E. L. McDonough. Howe, W. M. Smith. Le Grange, Jos. Cottam. Laupusas, Dr. C. M. Ramsdell. Merkel, J. L. Vaughan. Mesquite, Silas G. Laekey. Menardville, Louis Runge. Navasota, C. E. Hull. New Braunfels, Paul Wipprecht. New Ulm, C. Runge. Roby, Crane & Keifer. Silver Falls, C. M. Tilford. Snyder, A. C. Wilmeth. Utah. Beaver, Rev. J. D. Gillilan. Levan, A. B. Larsen. Loose, Ephraim Caffall. •Mount Carmel, Robert Moncur. Mount Pleasant, Hans C. Davidson. Nephi, W. R. May. Saint George, Seth A. Pym.	WASHINGTON TERRITORY. Clarkburgh, R. T. Lowndes. Ella, Henry Tessier. Egion, Julius Scherr. Kingwood, J. E. Murdoch. Pleasant Hill, D. Titchener. Rockport, R. D. J. Echols. Seven Pines, J. R. Sharer. Rivesville, J. T. Parsons and F. F. Prickett. Rowlesburgh, M. J. Coniff. Tannery, G. H. Tremby. Tyler Creek, F. M. Swain.	WYOMING. Lusk, F. S. Lusk. Wheatland, M. R. Johnston.
PENNSYLVANIA. Altoona, Chas. B. Dudley, M. D. Aquiaut, D. M. Sheely. Blooming Grove, John Grathwohl. Blue Knob, A. H. Boyle. Catawissa, Robt. M. Graham.	TENNESSEE. Ashwood, Rev. C. P. Williams. Austin, P. B. Calhoun. Cumberland Gap, A. A. Arthur. Milan, Dr. M. D. L. Jordan. Nashville, State Board of Health. Riddleton, F. K. Ferguson.	IDAHO. Boise Barracks. Lewis, Fort.	MARYLAND. McHenry, Fort.	FOREIGN. Burnside, S. A., Dr. C. J. Hering. Grand Turk, West Indies, Geo. I. Gibbs.
ARKANSAS. Hot Springs. Little Rock Barracks.	COLORADO. Crawford, Fort.	Sherman, Fort.	MARYLAND—Cont'd. Robinson, Fort.	GUANAJUATO, Mexico, Meteorological Observatory.
CALIFORNIA. Alcatraz Island. Angel Island. Benicia Barracks. Bidwell, Fort. Gaston, Fort. Mason, Fort. *Presidio, San Franc'co. Barrancas, Fort. San Diego Barracks.	CONNECTICUT. Trumbull, Fort.	ILLINOIS. Rock Island Arsenal.	NEBRASKA—Cont'd. Sidney, Fort.	HAMILTON, Bermuda, Gen. Russell Hastings.
FLORIDA. DISTRICT OF COLUMBIA.	DAKOTA. A. Lincoln, Fort.	Sheridan, Fort.	NEW MEXICO. Bayard, Fort.	HAVANA, Cuba, Dr. Enrique del Monte.
KENTUCKY. Louisiana. Maine. Nebraska.	INDIAN TERRITORY. Gibson, Fort.	Reno, Fort.	OREGON. Columbus Barracks.	KILLISNOO, Alaska, Jos. Zuboff.
Louisiana. Maine. Nebraska.	Louisiana. Totten, Fort.	Sill, Fort.	PENNSYLVANIA. Klamath, Fort.	LA LOGIA, Mexico, H. Patrick.
MISSOURI. Montana.	MISSOURI. Supply, Fort.	MINNESOTA. Snelling, Fort.	PENNSYLVANIA—Cont'd. Allegheny Arsenal.	LEON, Mexico, Prof. M. Leal.
MISSOURI. Montana.	KANSAS. Hays, Fort.	MISSOURI. Jefferson Barracks.	RHODE ISLAND. Frankford Arsenal.	MAZATHAN, Mexico, Leon P. Acosta
MISSOURI. Montana.	Randall, Fort.	LEAVENWORTH, Fort.	NEW YORK. Adams, Fort.	MEXICO, Mexico, Meteorological Observatory.
MISSOURI. Montana.	Leavenworth Prison.	LEAVENWORTH, Fort.	TEXAS. Columbus, Fort.	MONTEREY, Mexico, Dr. Wm. De Ryee.
MISSOURI. Montana.	Riley, Fort.	LEAVENWORTH, Fort.	TEXAS—Cont'd. David's Island.	MONTREAL, Quebec, C. H. McLeod.
MISSOURI. Montana.	NEW YORK. Newport Barracks.	LEAVENWORTH, Fort.	TEXAS—Cont'd. Bliss, Fort.	NEW WESTMINSTER, B.C., Capt. A. Peele.
MISSOURI. Montana.	LOUISIANA. Jackson Barracks.	LEAVENWORTH, Fort.	TEXAS—Cont'd. Brown, Fort.	PORT AU PRINCE, Hayti, Prof. I. Scherer.
MISSOURI. Montana.	MAINE. Kennebec Arsenal.	LEAVENWORTH, Fort.	TEXAS—Cont'd. Clark, Fort.	PUERCO, Mexico, Catholic Institute.
MISSOURI. Montana.	FLORIDA. Preble, Fort.	LEAVENWORTH, Fort.	TEXAS—Cont'd. Davis, Fort.	TOPOLOBAMPO, Mexico, Capt. John Bell.
MISSOURI. Montana.	Saint Francis Barracks.	LEAVENWORTH, Fort.	TEXAS—Cont'd. Eagle Pass, Camp.	ZACATECAS, Mexico, Jose A. y Borilla.
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Elliot, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Hancock, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. McIntosh, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Waterlyct Arsenal.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. West Point Mil. Acad'my.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Peña Colorado, Camp.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Washakie, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. Ringgold, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	TEXAS—Cont'd. San Antonio, Post at.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	UTAH. Du Chesne, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	UTAH. Douglas, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	VIIRGINIA. Monroe, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	VIIRGINIA. Myer, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WASHINGTON TER. Gunny, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WASHINGTON TER. Spokane, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WASHINGTON TER. Townsend, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WASHINGTON TER. Vancouver, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WASHINGTON TER. Walla Walla, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. Bridger, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. D. A. Russell, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. Laramie, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. McKinney, Fort.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. Pilot Butte, Camp.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. Sheridan, Camp.	
MISSOURI. Montana.		LEAVENWORTH, Fort.	WYOMING. Washakie, Fort.	

Military posts from which meteorological reports were received, through the Surgeon General of the Army, in time to be used in the preparation of the Monthly Weather Review for July, 1889.

ALABAMA. Mount Vernon Barracks.	COLORADO. Crawford, Fort.	IDAHO. Boise Barracks.	MARYLAND. McHenry, Fort.	NEBRASKA—Cont'd. Omaha, Fort.	NEW YORK—Cont'd. Willett's Point.	TEXAS—Cont'd. Ringgold, Fort.
ARIZONA. Apache, Fort.	CONNECTICUT. Trumbull, Fort.	ILLINOIS. Sheridan, Fort.	MASSACHUSETTS. Springfield Armory.	NEBRASKA—Cont'd. Robinson, Fort.	OHIO. Columbus Barracks.	SAN ANTONIO, Post at.
BOWIE, Fort.	DAKOTA. Lyons, Fort.	ROCK ISLAND ARSENAL.	WARRIOR, Fort.	NEBRASKA—Cont'd. Sidney, Fort.	OREGON. Klamath, Fort.	DU CHESNE, Fort.
HAUCHUCA, Fort.	MISSOURI. McDowell, Fort.	SHERIDAN, Fort.	MISSOURI. Brady, Fort.	NEBRASKA—Cont'd. Bayard, Fort.	PENNSYLVANIA. Allegheny Arsenal.	DOUGLAS, Fort.
LOWELL, Fort.	MISSOURI. Mojave, Fort.	MISSOURI. Gibson, Fort.	MISSOURI. Mackinac, Fort.	NEBRASKA—Cont'd. Macy, Fort.	MISSOURI. Frankford Arsenal.	MONROE, Fort.
VERDE, Fort.	MISSOURI. San Carlos.	MISSOURI. Reno, Fort.	MISSOURI. Wayne, Fort.	NEBRASKA—Cont'd. Seliden, Fort.	MISSOURI. Union, Fort.	MYER, Fort.
WHIPPLE BARRACKS.	MISSOURI. Hot Springs.	MISSOURI. Bennett, Fort.	MISSOURI. Riley, Fort.	NEBRASKA—Cont'd. Wayne, Fort.	MISSOURI. Wingate, Fort.	WASHINGTON TER.
ARKANSAS. Hot Springs.	MISSOURI. Little Rock Barracks.	MISSOURI. Buford, Fort.	MISSOURI. Supply, Fort.	NEBRASKA—Cont'd. Jefferson Barracks.	MISSOURI. Columbus, Fort.	GUNBY, Fort.
CALIFORNIA. Alcatraz Island.	MISSOURI. Angel Island.	MISSOURI. Mcade, Fort.	MISSOURI. Hays, Fort.	NEBRASKA—Cont'd. David's Island.	MISSOURI. David's Island.	SPOKANE, Fort.
FLORIDA. DISTRICT OF COLUMBIA.	MISSOURI. Yates, Fort.	MISSOURI. Randall, Fort.	MISSOURI. Leavenworth, Fort.	NEBRASKA—Cont'd. Hamilton, Fort.	MISSOURI. Hamilton, Fort.	TOWNSEND, Fort.
KENTUCKY. Louisiana.	MISSOURI. Leavenworth Prison.	MISSOURI. Totten, Fort.	MISSOURI. Leavenworth Prison.	NEBRASKA—Cont'd. Keogh, Fort.	MISSOURI. Niagara, Fort.	VANCOUVER, Fort.
LOUISIANA. Maine.	MISSOURI. Riley, Fort.	MISSOURI. Jackson Barracks.	MISSOURI. Maginnis, Fort.	NEBRASKA—Cont'd. Plattsburgh Barracks.	MISSOURI. Niagara, Fort.	WALLA WALLA, Fort.
MAINE. Nebraska.	MISSOURI. Kennebec Arsenal.	MISSOURI. Shaw, Fort.	MISSOURI. Missouri, Fort.	NEBRASKA—Cont'd. Porter, Fort.	MISSOURI. Niagara, Fort.	WATERLYCT ARSENAL.
MISSOURI. Montana.	MISSOURI. Preble, Fort.	MISSOURI. Preble, Fort.	MISSOURI. Poplar River, Fort.	NEBRASKA—Cont'd. Schuyler, Fort.	MISSOURI. Niagara, Fort.	PEÑA COLORADO, Camp.
MISSOURI. Montana.	SAIN T FRANC'CO. BARRANCAS, Fort.	SAIN T FRANC'CO. BARRANCAS, Fort.	MISSOURI. Shaw, Fort.	NEBRASKA—Cont'd. Wadsworth, Fort.	MISSOURI. Niagara, Fort.	PEÑA COLORADO, Camp.
MISSOURI. Montana.	SAIN T FRANC'CO. BARRANCAS, Fort.	SAIN T FRANC'CO. BARRANCAS, Fort.	MISSOURI. Niobrara, Fort.	NEBRASKA—Cont'd. Shaw, Fort.	MISSOURI. Niagara, Fort.	PEÑA COLORADO, Camp.
MISSOURI. Montana.	SAIN T FRANC'CO. BARRANCAS, Fort.	SAIN T FRANC'CO. BARRANCAS, Fort.	MISSOURI. Niobrara, Fort.	NEBRASKA—Cont'd. West Point Mil. Acad'my.	MISSOURI. Niagara, Fort.	PEÑA COLORADO, Camp.